AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An arrangement ~~Arrangement~~ for carrying out a method for controlling a multi-phased and reversible rotating electrical machine, associated with a heat engine of a vehicle, ~~specifically, an automobile,~~ including a network for supplying electrical energy and a battery serving as a source of electrical energy connected to this network, as well as a command and control unit for the said electrical machine, in which overexcitation of the machine ~~[1]~~ for a predetermined period of time causes the production of energy, and makes this energy available for the execution of certain functions associated with the vehicle, ~~characterized in that it includes~~ comprising:

   a device for supplying the energy produced during the predetermined period of time of overexcitation of the machine; ~~in that~~ wherein the device for supplying the energy is an energy storage device ~~[9]~~ that can be connected to the rotating electrical machine ~~[1]~~ by means of a switching device ~~[6]~~ during the predetermined period of time of overexcitation of the machine, ~~in that it includes~~

   a DC to DC device ~~[4] which device is~~ mounted between the energy supply battery ~~[2]~~ and the energy storage device, and, ~~[9], downstream from the switching device [6], in that it includes~~

   a circuit ~~[7]~~ that can directly connect the rotating electrical machine ~~[1]~~ to the battery, wherein ~~[2], and in that~~ a switch ~~[T1]~~ is provided in the above-mentioned circuit ~~[7]~~.

2. (Currently Amended) The arrangement ~~Arrangement~~ according to claim 1, ~~characterized in that~~ wherein the switch ~~advantageously consists of~~ comprises a MOSFET transistor ~~[T1]~~.

3. (Currently Amended) The arrangement ~~Arrangement~~ according to claim 2, ~~characterized in that~~ wherein the switching device ~~[6]~~ is a static switch device.

4. (Currently Amended) The arrangement ~~Arrangement~~ according to claim 3, ~~characterized in that~~ wherein the energy storage device ~~[9]~~ is a capacitor device~~, advantageously consisting of a supercapacitor with low internal resistance~~.

5. (Currently Amended) The arrangement ~~Arrangement~~ according to claim 4, ~~characterized in that~~ wherein the switching device includes two transistors, ~~[T1] [T2], advantageously of the MOSFET type,~~ which are mounted head-to-tail in the output circuit of the rotating electrical machine ~~[1]~~.

6. (Currently Amended) The arrangement ~~Arrangement~~ according to claim 1, ~~characterized in that~~ wherein the switching device ~~[6] consists of~~ comprises a diode ~~[D]~~, with a switch ~~[R]~~ mounted in series with the ~~said~~ diode.

7. (Currently Amended) The arrangement ~~Arrangement~~ according to claim 6, ~~characterized in that~~ wherein the ~~above mentioned~~ switch ~~[R] consists of~~ comprises an electromagnetic relay.

8. (New) The arrangement according to claim 1, wherein the switching device is mounted between the rotating electrical machine and the energy storage device.

9. (New) The arrangement according to claim 4, wherein the energy storage device is a supercapacitor with low internal resistance.

10. (New) The arrangement according to claim 5, wherein at least one of the transistors is of the metal-oxide-semiconductor field-effect transistor (MOSFET) type.